

CRF Errors Corrected by the STIC System Branch

Serial Number: 08/711,961

CRF Processing Date: 12/11/96  
 Edited by: AJ  
 Verified by: \_\_\_\_\_ (STIC staff)

ENTERED

#4  
 12/14/96  
 ML

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number input by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/08/711,961DATE: 12/11/96  
TIME: 19:33:03

INPUT SET: S14333.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

Does Not Comply  
Corrected Diskette Needed

## SEQUENCE LISTING

1  
2  
3 (1) General Information:  
4 (i) APPLICANT: Arthur A. Branstrom  
5 Donata R. Sizemore  
6 Jerald C. Sadoff  
7  
8 (ii) TITLE OF INVENTION: Bacterial Delivery System  
9  
10 (iii) NUMBER OF SEQUENCES: 8  
11  
12 (iv) CORRESPONDENCE ADDRESS:  
13 (A) ADDRESSEE: John Moran  
14 (B) STREET: USA MPMC - MCMR-JA  
15 (C) CITY: FORT DETRICK, FREDERICK  
16 (D) STATE: MARYLAND  
17 (E) COUNTRY: USA  
18 (F) ZIP: 21702-5012  
19  
20 (v) COMPUTER READABLE FORM:  
21 (A) MEDIUM TYPE: Floppy disk  
22 (B) COMPUTER: Apple Macintosh  
23 (C) OPERATING SYSTEM: Macintosh 7.5  
24 (D) SOFTWARE: Microsoft Word  
25  
26 (vi) CURRENT APPLICATION DATA:  
27 (A) APPLICATION NUMBER:  
28 (B) FILING DATE:  
29 (C) CLASSIFICATION:  
30  
31 (vii) PRIOR APPLICATION DATA:  
32 (A) APPLICATION NUMBER:  
33 (B) FILING DATE:  
34  
35 (viii) ATTORNEY/AGENT INFORMATION:  
36 (A) NAME: Moran, John  
37 (B) REGISTRATION NUMBER: 26,313  
38 (C) REFERENCE/DOCKET NUMBER:  
39  
40 (ix) TELECOMMUNICATION INFORMATION  
41 (A) TELEPHONE: (301) 619-2065  
42 (B) TELEFAX: (301) 619-7714  
43  
44 (2) INFORMATION FOR SEQ ID NO:1:  
45  
46 (i) SEQUENCE CHARACTERISTICS:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/711,961

DATE: 12/11/96

TIME: 19:33:07

INPUT SET: S14333.raw

47 (A) LENGTH: 1674 base pairs  
48 (B) TYPE: Nucleic acid  
49 (C) STRANDEDNESS: Double  
50 (D) TOPOLOGY: Linear  
51  
52

53 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

54	TCCATAATCA	GGATCAATAA	AACTGCTGCA	GAAATGATTT	40
55	CATTCATAAC	TCAAATTCCT	TGATAATTGC	CGCGGACTTT	80
56	CTGCGTGCTA	ACAAAGCAGG	ATAAGTCGCA	TTACTCATGG	120
57	CTTCGCTATC	ATTGATTAA	TTCACCTGCG	ACTTTGGCTG	160
58	CTTTTTGTAT	GGTGAAAGAT	GTGCCAAGAG	GAGACCGGCA	200
59	CATTTATACA	GCACACATCT	TTGCAGGAAA	AAAACGCTTA	240
60	TGAAAAATGT	TGGTTTTATC	GGCTGGCGCG	GTATGGTCGG	280
61	CTCCGTTCTC	ATGCAACGCA	TGGTTGAAGA	GCGCGACTTC	320
62	GACGCCATTC	GCCCTGTCTT	CTTTTCTACT	TCTCAGCTTG	360
63	GCCAGGCTGC	GCCGTCTTTT	GGCGGAACCA	CTGGCACACT	400
64	TCAGGATGCC	TTTGATCTGG	AGGCGCTAAA	GGCCCTCGAT	440
65	ATCATTGTGA	CTGTCTAGGG	CGGCGATTAT	ACCAACGAAA	480
66	TCTATCCAAA	GC'TTCGTGAA	AGCGGATGGC	AAGGTTACTG	520
67	GATTGACGCA	GCATCGTCTC	TGCGCATGAA	AGATGACGCC	560
68	ATCATCATTC	TTGACCCCGT	CAATCAGGAC	GTCATTACCG	600
69	ACGGATTAAA	TAATGGCATC	AGGACTTTTG	TTGGCGGTAA	640
70	CTGTACCGTA	AGCCTGATGT	TGATGTCGTT	GGGTGGTTTA	680
71	TTCGCCAATG	ATCTTGTTGA	TTGGGTGTCC	GTTGCAACCT	720
72	ACCAGGCCGC	TTCCGGCGGT	GGTGCGCGAC	ATATGCGTGA	760
73	GTTATTAACC	CAGATGGGCC	ATCTGTATGG	CCATGTGGCA	800
74	GATGAACTCG	CGACCCCGTC	CTCTGCTATT	CTCGATATCG	840
75	AACGCAAAGT	CACAACCTTA	ACCCGTAGCG	GTGAGCTGCC	880
76	GGTGGATAAC	TTTGGCGTGC	CGCTGGCGGG	TAGCCTGATT	920
77	CCGTGGATCG	ACAAACAGCT	CGATAACGGT	CAGAGCCGCG	960
78	AAGAGTGGA	AGGGCAGGCG	GAAACCAACA	AGATCCTCAA	1000
79	CACATCTTCC	GTAATTCGGG	TAGATGGTTT	ATGTGTGCGT	1040
80	GTCGGGGCAT	TGCGCTGCCA	CAGCCAGGCA	TTCACTATTA	1080
81	AATTGAAAAA	AGATGTGTCT	ATTCCGACCG	TGGAAGAACT	1120
82	GCTGGCTGCG	CACAATCCGT	GGGCGAAAGT	CGTTCCGAAC	1160
83	GATCGGGAAA	TCACTATGCG	TGAGCTAACC	CCAGCTGCCG	1200
84	TTACCGGCAC	GCTGACCACG	CCGGTAGGCC	GCCTGCGTAA	1240
85	GCTGAATATG	GGACCAGAGT	TCCTGTCAGC	CTTTACCGTG	1280
86	GGCGACCAGC	TGCTGTGGGG	GGCCGCGGAG	CCGCTGCGTC	1320
87	GGATGCTTCG	TCAACTGGCG	TAATCTTTAT	TCATTAAATC	1360
88	TGGGGCGCGA	TGCCGCCCTT	GTTAGTGCGT	AATACAGGAG	1400
89	TAAGCGCAGA	TGTTTCATGA	TTTACCGGGA	GTTAAATAGA	1440
90	GCATTGGCTA	TTCTTTAAGG	GTGGCTGAAT	ACATGAGTAT	1480
91	TCACAGCCTT	ACCTGAAGTG	AGGACGACGC	AGAGAGGATG	1520
92	CACAGAGTGC	TGCGCCGTTC	AGGTCAAAAA	AATGTCACAA	1560
93	CCAGAAGTCA	AAAATCCAAT	TGGATGGGGT	GACACAATAA	1600
94	AACAGGAAGA	CAAGCATGTC	CGATCGTATC	GATAGAGACG	1640
95	TGATTAACGC	GCTAATTGCA	GGCCATTTTG	CGGA	1674

96

97 (2) INFORMATION FOR SEQ ID NO:2:

98

99 (i) SEQUENCE CHARACTERISTICS:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/711,961

DATE: 12/11/96

TIME: 19:33:10

INPUT SET: S14333.raw

100 (A) LENGTH: 1121 base pairs  
101 (B) TYPE: Nucleic acid  
102 (C) STRANDEDNESS: Double  
103 (D) TOPOLOGY: Linear  
104 (ii) MOLECULE TYPE: Other nucleic acid  
105 (A) DESCRIPTION: The E. coli asd gene coding for b-aspartic semialdehyde dehydrogen  
106  
107 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

109	TCCATAATCA	GGATCAATAA	AACTGCTGCA	GAAATGATTT	40
110	CATTCATAAC	TCAAATTCCC	TGATAATTGC	CGCGGACTTT	80
111	CTGCGTGCTA	ACAAAGCAGG	ATAAGTCGCA	TTACTCATGG	120
112	CTTCGCTATC	ATTGATTAAT	TTCAC TTGCG	ACTTTGGCTG	160
113	CTTTTTGTAT	GGTGAAAGAT	GTGCCAAGAG	GAGACCGGCA	200
114	CATTTATACA	GCACACATCT	TTGCAGGAAA	AAAACGCTTA	240
115	TGAAAAATGT	TGGTTTTATC	GGCTGGCGCG	GTATGGTCGG	280
116	CTCCGTTCTC	ATGCAACGCA	TGGTTGAAGA	GCGCGACTTC	320
117	GACGCCATTC	GCCCTGTCTT	CTTTTCTACT	TCTCAGCTTG	360
118	GCCAGGCTGC	GCCGTCTTTT	GGCGGAACCA	CTGGCACACT	400
119	TCAGGATGCC	TTTGATCTGG	AGGCGCTAAA	GGCCCTCGGA	440
120	TCCTCAACAC	ATCTTCCGTA	ATTCCGGTAG	ATGGTTTATG	480
121	TGTGCGTGTC	GGGGCATTGC	GCTGCCACAG	CCAGGCATTC	520
122	ACTATTTAAAT	TGAAAAAAGA	TGTGTCTATT	CCGACCGTGG	560
123	AAGAACTGCT	GGCTGCGCAC	AATCCGTGGG	CGAAAGTCGT	600
124	TCCGAACGAT	CGGGAAATCA	CTATGCGTGA	GCTAACCCCA	640
125	GCTGCCGTTA	CCGGCACGCT	GACCACGCCG	GTAGGCCGCC	680
126	TGCGTAAGCT	GAATATGGGA	CCAGAGTTCC	TGTCAGCCTT	720
127	TACCGTGGGC	GACCAGCTGC	TGTGGGGGGC	CGCGGAGCCG	760
128	CTGCGTCGGA	TGCTTCGTCA	ACTGGCGTAA	TCTTTATTCA	800
129	TTAAATCTGG	GGCGCGATGC	CGCCCCTGTT	AGTGCGTAAT	840
130	ACAGGAGTAA	GCGCAGATGT	TTCATGATTT	ACCGGGAGTT	880
131	AAATAGAGCA	TTGGCTATTTC	TTTAAGGGTG	GCTGAATACA	920
132	TGAGTATTCA	CAGCCTTACC	TGAAGTGAGG	ACGACGCAGA	960
133	GAGGATGCAC	AGAGTGCTGC	GCCGTTTCAGG	TCAAAAAAAT	1000
134	GTCACAACCA	GAAGTCAAAA	ATCCAATTGG	ATGGGGTGAC	1040
135	ACAATAAAAC	AGGAAGACAA	GCATGTCCGA	TCGTATCGAT	1080
136	AGAGACGTGA	TTAACGCGCT	AATTGCAGGC	CATTTTGCGG	1120
137	A				1121

138  
139 (2) INFORMATION FOR SEQ ID NO:3:  
140  
141 (i) SEQUENCE CHARACTERISTICS:  
142 (A) LENGTH: 22 base pairs  
143 (B) TYPE: Nucleic acid  
144 (C) STRANDEDNESS: Double  
145 (D) TOPOLOGY: Linear  
146  
147 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
148  
149 AGATCTCCCT GATAATTGCC GC 22  
150  
151  
152

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/711,961

DATE: 12/11/96

TIME: 19:33:14

INPUT SET: S14333.raw

153 (2) INFORMATION FOR SEQ ID NO:4:

154

155 (i) SEQUENCE CHARACTERISTICS:

156 (A) LENGTH: 26 base pairs

157 (B) TYPE: Nucleic acid

158 (C) STRANDEDNESS: Double

159 (D) TOPOLOGY: Linear

160

161

162 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

163

164 AGATCTCGCT TACTCCTGTA TTACGC

26

165

166

167 (2) INFORMATION FOR SEQ ID NO:5:

168

169 (i) SEQUENCE CHARACTERISTICS:

170 (A) LENGTH: 20 base pairs

171 (B) TYPE: Nucleic acid

172 (C) STRANDEDNESS: Double

173 (D) TOPOLOGY: Linear

174

175

176 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

177

178 CGAGGGCCTT TAGCGCCTCC

20

179

180

181 (2) INFORMATION FOR SEQ ID NO:6:

182

183 (i) SEQUENCE CHARACTERISTICS:

184 (A) LENGTH: 20 base pairs

185 (B) TYPE: Nucleic acid

186 (C) STRANDEDNESS: Double

187 (D) TOPOLOGY: Linear

188

189

190

191 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

192

193 GATCCTCAAC ACATCTTCCG

20

194

195

196 (2) INFORMATION FOR SEQ ID NO:7:

197

198 (i) SEQUENCE CHARACTERISTICS:

199 (A) LENGTH: 22 base pairs

200 (B) TYPE: Nucleic acid

201 (C) STRANDEDNESS: Double

202 (D) TOPOLOGY: Linear

203

204

205 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/711,961

DATE: 12/11/96

TIME: 19:33:17

INPUT SET: S14333.raw

206  
207 GAGCTCCCCCT GATAATTGCC GC 22  
208  
209

210 (2) INFORMATION FOR SEQ ID NO:8:  
211

212 (i) SEQUENCE CHARACTERISTICS:

213 (A) LENGTH: 26 base pairs

214 (B) TYPE: Nucleic acid

215 (C) STRANDEDNESS: Double

216 (D) TOPOLOGY: Linear  
217

218  
219 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
220

221 GTCGACCGCT TACTCCTGTA TTACGC 26  
222

223 x p a | H H Rt ( H H g '   
224 E   
225 |   
226 r   
227   
228 ! X   
229 M Courier M New York " l \*

delete